

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

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**Date/Time:** April 18, 2005

**Site Contact(s):** Julie Keating  
**Phone:** 303/966-5205

<b>Regulatory Contact:</b>	Carl Spreng	Tracy Hammon	Robyn Blackburn
<b>Agency:</b>	CDPHE	CDPHE	USFWS Liaison to USEPA
<b>Phone:</b>	303/692-3385	303/692-2693	303/312-6663

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**Purpose of Contact:** Documentation of Aquatic Exposure Units for the Comprehensive Risk Assessment and Accelerated Action Ecological Screening Evaluation

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### Discussion

During the latter stages of development of the Comprehensive Risk Assessment (CRA) Work Plan and Methodology (CRA Methodology) (DOE 2004a) in August 2004, it was suggested in a Risk Assessment Work Group Meeting (August 5, 2004) that the aquatic assessment (surface water and sediment) for ecological receptors be performed on a watershed-specific basis rather than the exposure unit (EU) basis already agreed upon for terrestrial ecological receptors. DOE agreed to the suggested modification, text was added to the final CRA Methodology specifying a watershed-specific assessment, and draft drainage EUs were prepared for the work group's review.

Following discussion of the proposed drainage EUs in subsequent work group meetings, the group concurred on the final configuration (October 14) of seven EUs. However, concurrence occurred after publication of the Final CRA Methodology in September 2004. This Contact Record documents the drainage EUs.

The attached map shows the drainage EUs identified as follows:

- Rock Creek Aquatic EU;
- McKay Ditch Aquatic EU;
- No Name Gulch Aquatic EU;
- North Walnut Creek Aquatic EU
- South Walnut Creek Aquatic EU;
- Woman Creek Aquatic EU; and
- Southeast Aquatic EU.

The names of the EUs have been changed slightly by DOE from the names on the EU boundary map agreed upon by the work group. This was done to clearly identify them as aquatic and avoid confusion with the terrestrial EUs. The aquatic EU boundaries are those agreed upon by the work group. Volume 15 of the CRA Report will be re-titled to read: "Risk Assessment for Aquatic Receptors and Wide-Ranging Ecological Receptors."

The aquatic EUs will also be evaluated to determine whether there is a need to perform accelerated actions to protect aquatic ecological receptors. The Accelerated Action Ecological Screening Evaluation (AAESE) for the Aquatic EUs follows the ecological contaminant of potential concern (ECOPC) procedure specified in appendix D of the Industrial Area and Buffer Zone Sampling and Analysis Plan (DOE 2004b) and the CRA Methodology. Assessments will be performed to evaluate data from areas within the EU that may be of concern because of the distribution of ecological contaminant of interest (ECOI) sampling and concentrations. Two sets of maps will be produced to be included in the assessment. ECOIs will be mapped when:

1. The ECOI maximum concentration is greater than the ESL, but the 95 percent upper confidence limit on the mean (UCL) or 95 percent upper tolerance limit (UTL) is less than the ecological screening level (ESL).
2. The ECOI is detected at a frequency of less than 5 percent.

These maps will ensure that ECOIs that may be of concern in ponds and other limited reaches of the watershed are properly assessed.

**References:**

DOE, 2004a, Final Comprehensive Risk Assessment Work Plan and Methodology, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2004b, Industrial Area and Buffer Zone Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, May

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**Contact Record Prepared By: Julie Keating**

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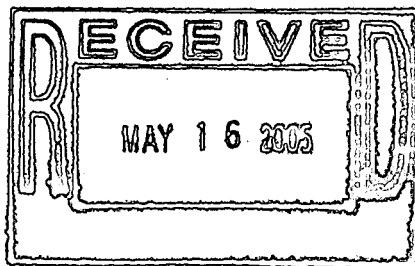
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Additional Distribution:

T. Hammon, CDPHE  
R. Blackburn, USFWS  
Liaison to USEPA


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2/2

3/3

